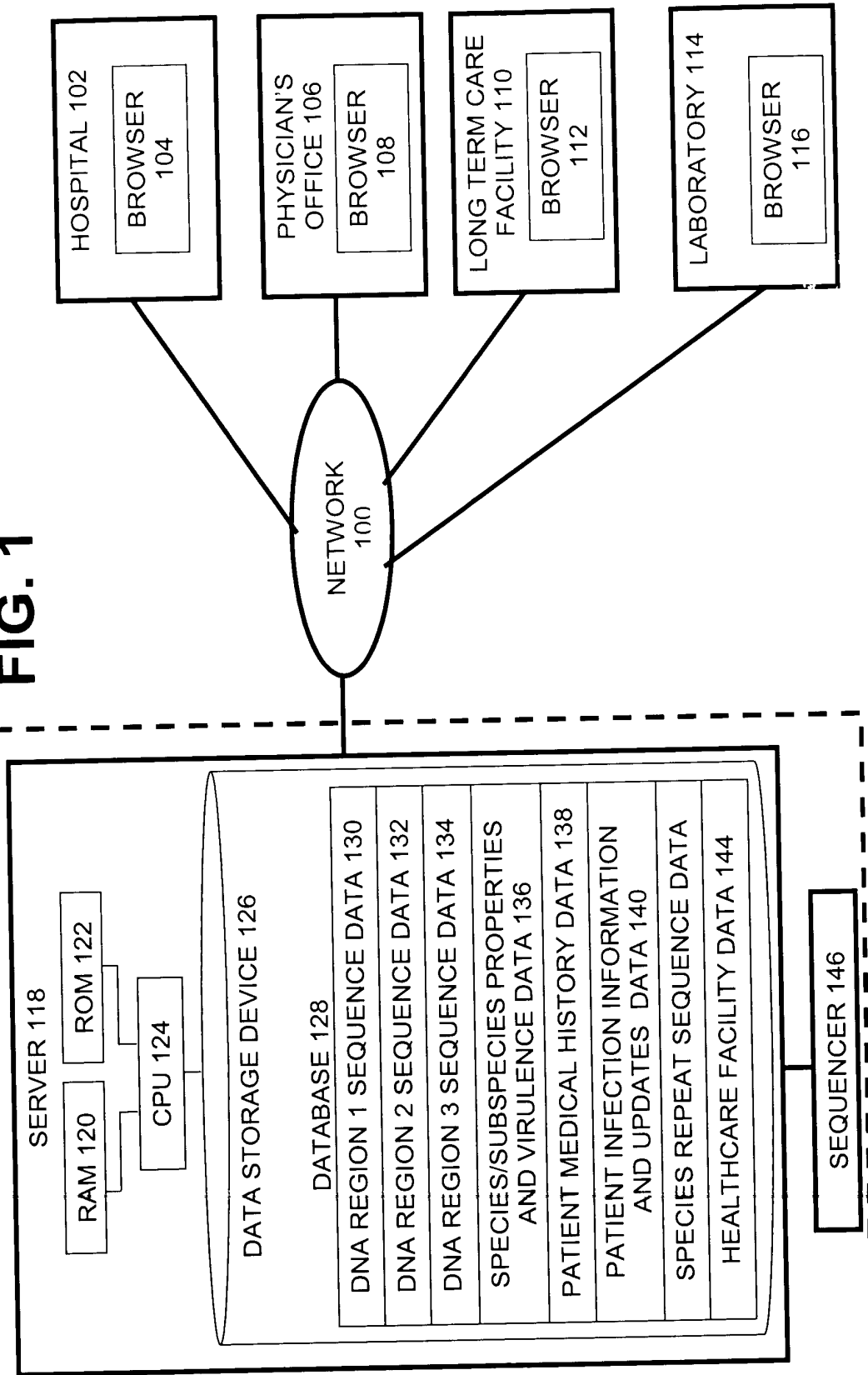


INFECTION CONTROL FACILITY  
148

FIG. 1



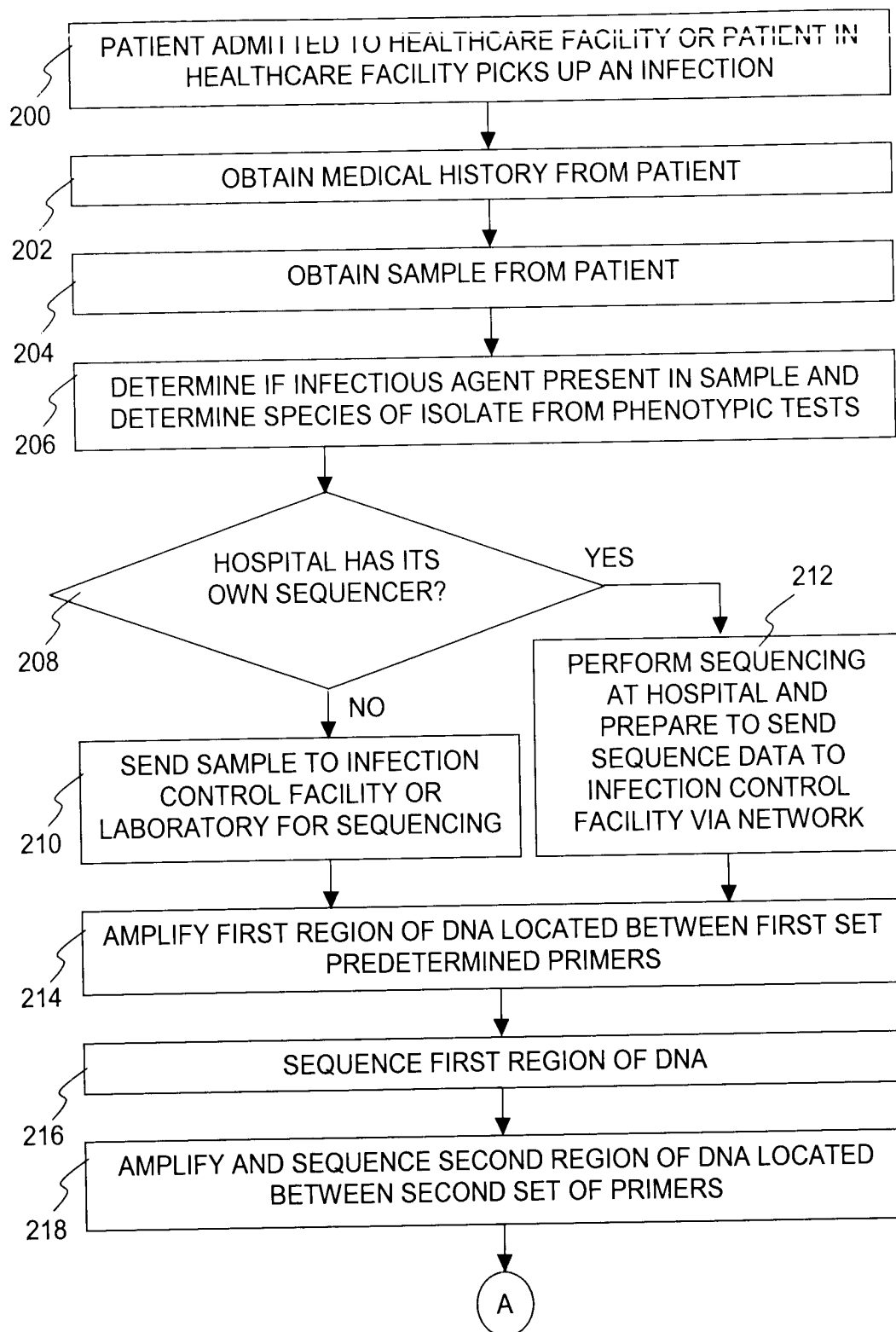
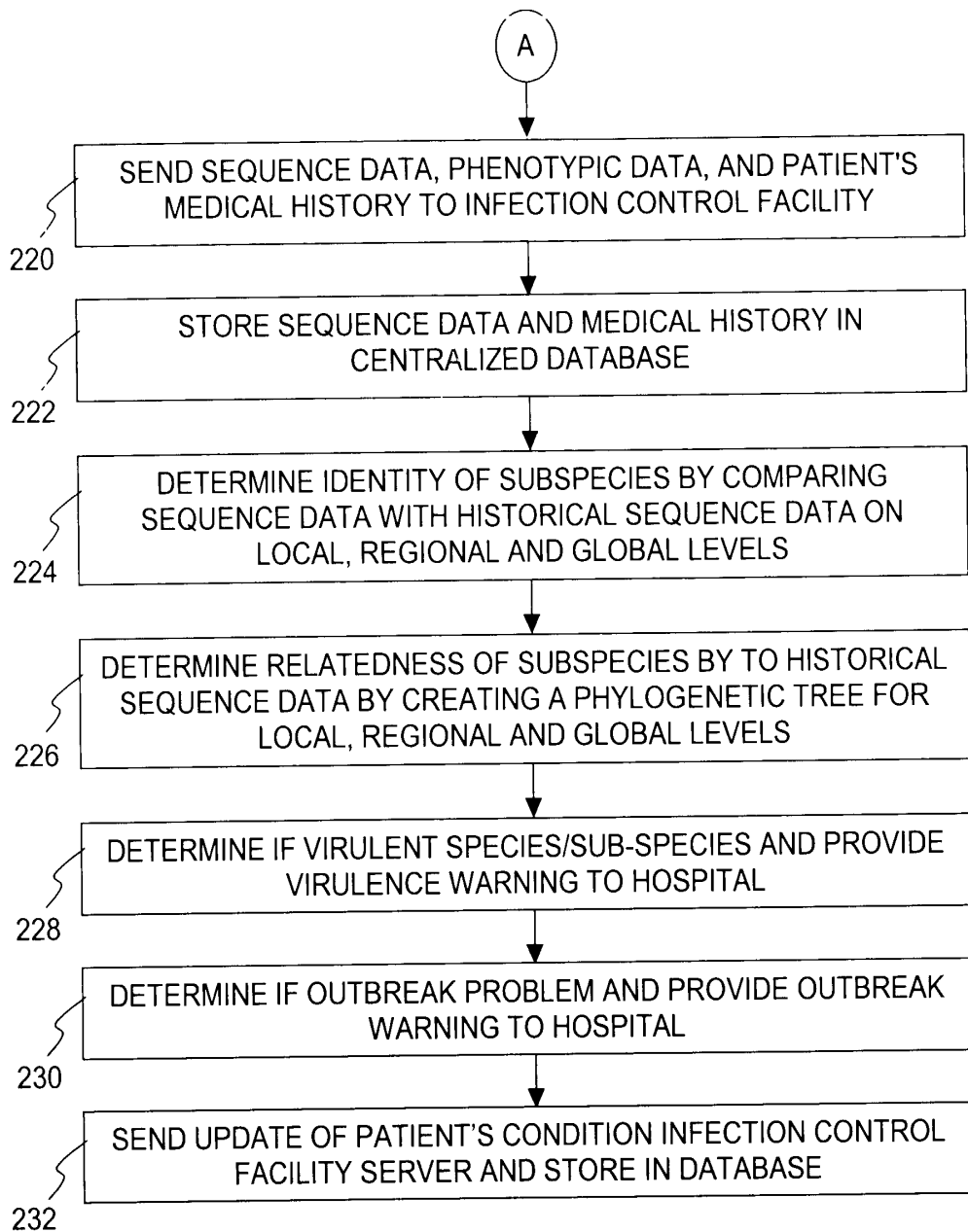
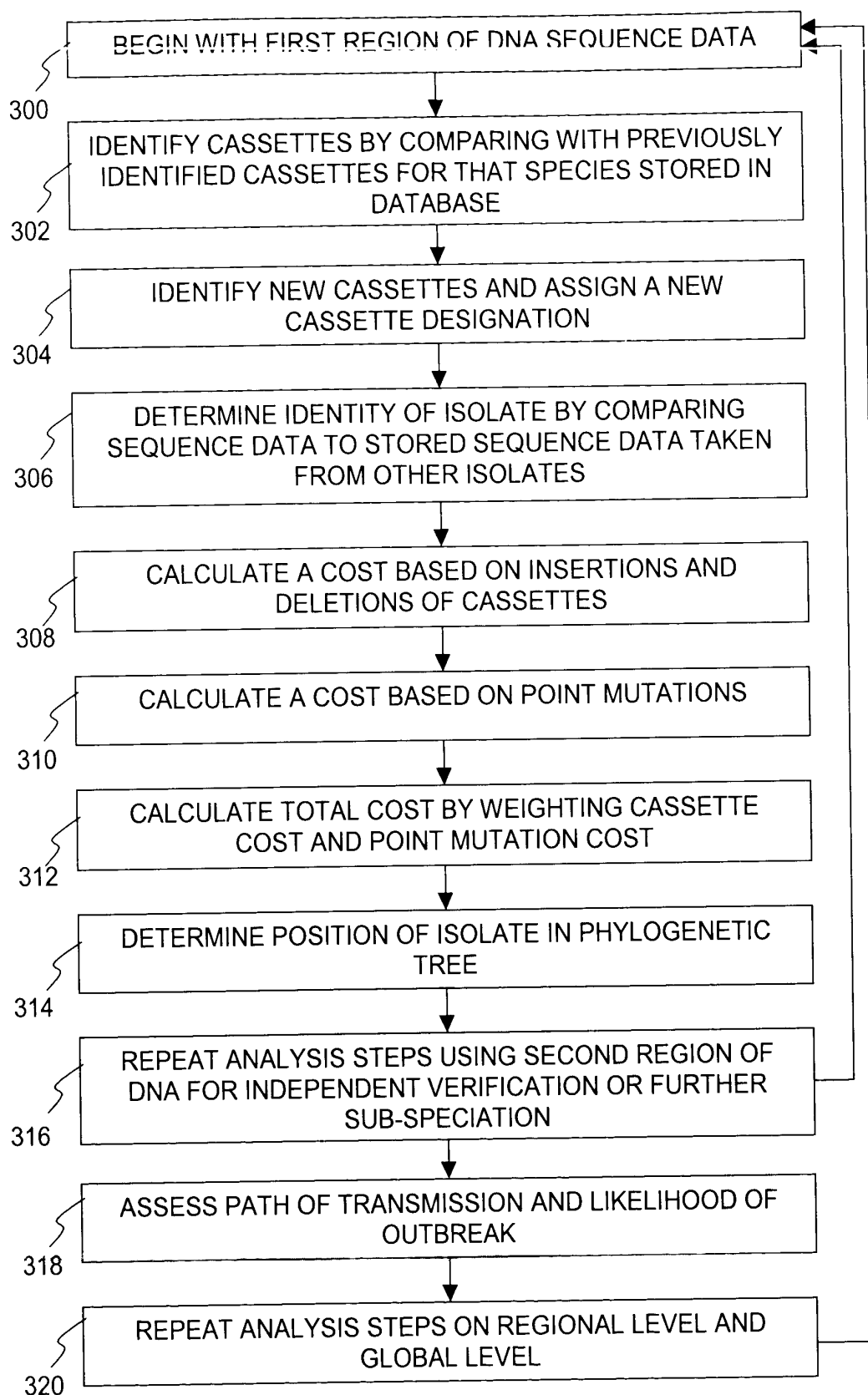


FIG. 2A



**FIG. 2B**



**FIG. 3**

400

T	GAGGAAGACAACAAAAACCTGGT
A	AAAGAAGACAACAAAAACCTGGC
B	AAAGAAGACAACAAAAACCTGGT
E	AAAGAAGACAACAACAAACCTGGT
G	AAAGAAGACAACAACAAGCCTGGT
D	AAAGAAGACAACAACAAACCTGGC
J	AAAGAAGACGGCAACAAACCTGGC
K	AAAGAAGACGGCAACAAACCTGGT
M	AAAGAAGACGGCAACAAGCCTGGT

FIG. 4A

404

GAGGAAGACAACAAAAACCTGGTAAAGAAGACGGCAACAAACCTGGCAAAGAA  
 GACGGCAACAAGCCTGGTAAAGAAGACAACAACAAACCTGGTAAAGAAGACGGC  
 AACAAAGCCTGGTAAAGAAGACAACAACAAACCTGGCAAAGAAGACGGCAACAAG  
 CCTGGTAAAGAAGACAACAACAAGCCTGGTAAAGAAGACGGCAACAAGCCTGGT  
 AAAGAAGACGGCAACAAACCTGGT

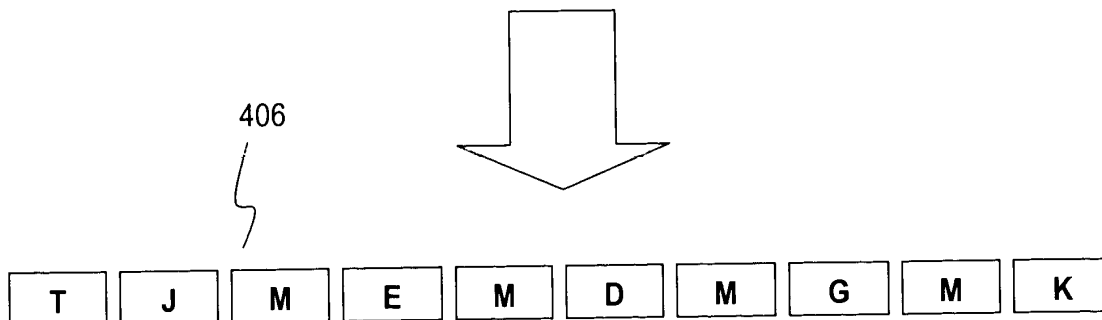


FIG. 4B

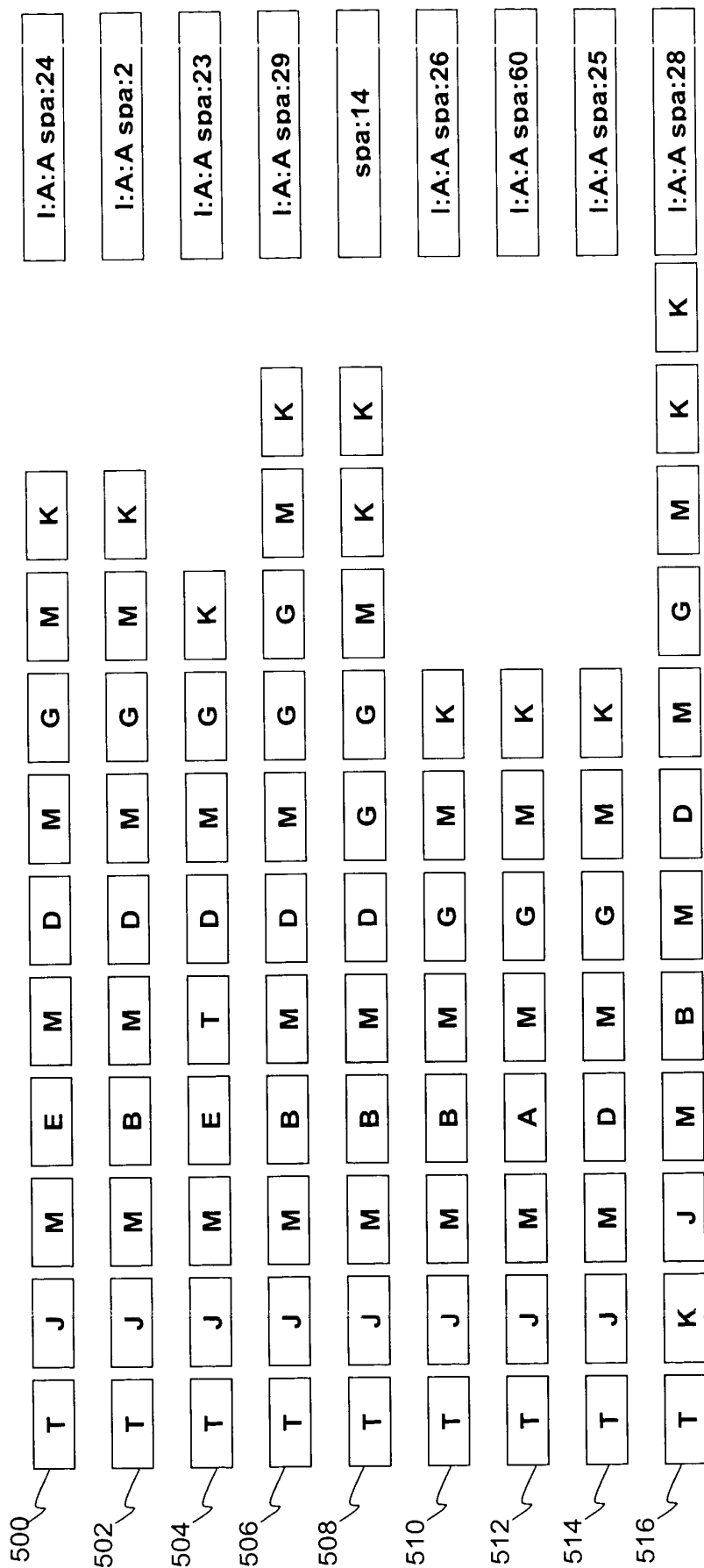
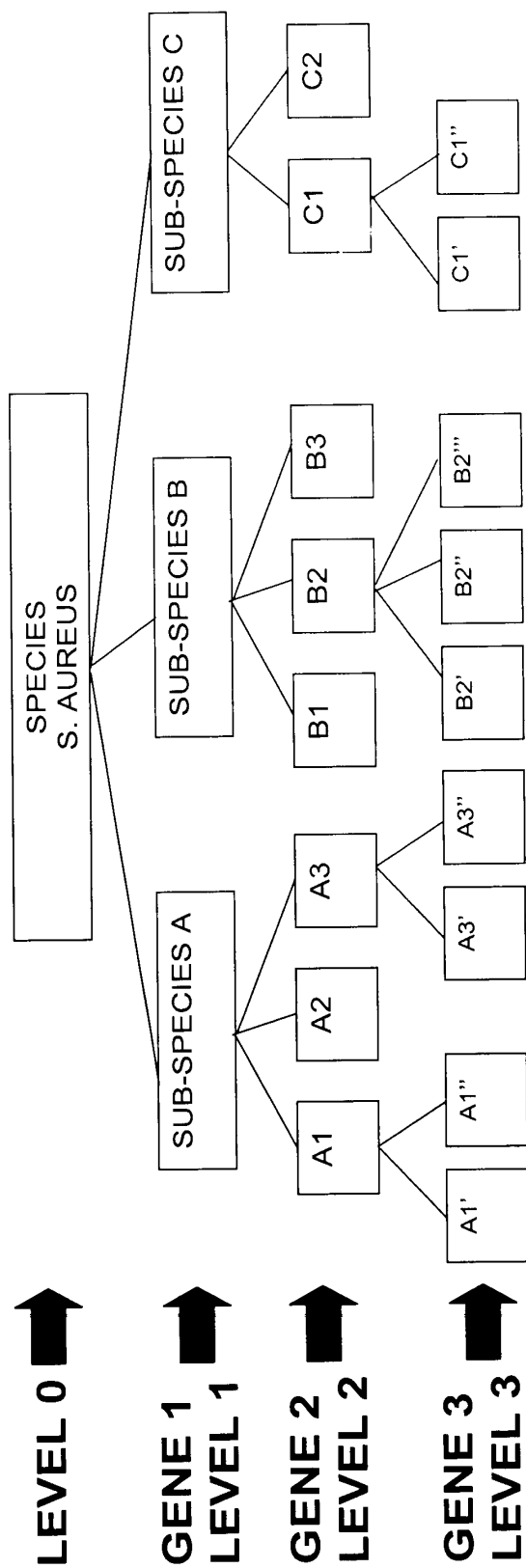


FIG. 5



**FIG. 6**

SPECIES	S. aureus	S. aureus	
SUBSPECIES	A1'	B7"	
SEQ REGION 1	ATTCATAGAT...		
SEQ REGION 2	CGTACTATCC...		
SEQ REGION 3	ATTCGTTATA...		
REGION 1 PRIMERS			
REGION 2 PRIMERS			
REGION 3 PRIMERS			
REPEATS REGION 1	TKJMP..		
REPEATS REGION 2	ABABA		
REPEATS REGION 3	TYYT		
DATE	June 5, 2000		
PATIENT MEDICAL HISTORY	Hospitalized in New York Hospital, June 2000 for 3 weeks, heart surgery...		
PATIENT MEDICAL UPDATE INFO	Patient hospitalized 3 weeks for infection and released....	Patient died due to infection after two weeks...	
LOCATION	Mt. Sinai Hospital, Toronto, Burn Ward	New York City Hospital, ICU	
PHAGE TTYPE			

**FIG. 7A**

S. AUREUS			
SEQ REGION	REPEAT 1	REPEAT 2	REPEAT 3
PROTEIN A X <sub>R</sub>	AATTCGCCTAGG..	AATTCCCCTAGG..	TAGGCCGT...
	..		
REGION 2	TTAAAGGCCTGA..	GGTTCCAATAAT..	GGTTAACC..
REGION 3			

**FIG. 7B**



SEO ID NO 37

TTTTCTTGCCAATTTTGGTCGTATTATCCGCTTTTTTACTGTTCCCTGACGATTCTTGATTTGTCTGTATCTGTTT  
AGTTGCTTGGTTTTCTGCTACTGATTCTTTGTTTACTAGCCTTGGCAGAGGGTTTGAATTACTTTGAGCGTCAT  
TAGGATCTTGATTAGACTCTACCGCGTAAATGACAGAAATCTGGCCTTTGCTTTGGCTACTTTTCGTTTACAGTGCTT  
GGGGTGCTACTCTCACTTGTATTGTTGGTTGCGCTGGTTGTAAGCACTACTTTTCGCTGGTACTACTTGTGTTT  
ACTGGTTGTACTTGGTGTGTTGCTTTCAATTTGTATTGCTTGTTCACCTGTCGTAAGTACTACTTTTCGCTGG  
TACTACTGGTTTCGCTGGTTGTGCTTGGCGTGTTGCTTTCACCTCGTACTACTGCTCTCACTTGTGCTGCTTGGCGTG  
CTGCTTTCGCTTGTATTACTGGTTTCACTTGTGCTGCTTGGAGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGT  
CGTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTTTCACCTTGTGCTGCTTGGAGTACTACTTTTCGCTTGTATTAC  
TGGTTTCGCTAGTTGTAATTTGGTGTGTTGCTTTCAATTTGTATTGCTTGTTCACCTTGTGCTGCTTGGAGTGCTGCTT  
TCGCTTGTATTACTGGTTTACTGGTTGTAAGTACTACTGCTTTCACCTTGTGCTGCTTGGAGTGCTGCTTTCGCTTGTATTACT  
TGAGGTGCTGCTTTCGCTTGTATTACTGGTTTCACTGGTTGCTGCTTGGAGTGCTGCTTTCGCTTGTATTACTAGTTG  
TCTCTGTTGATTTTTCACTAACAGAAGTAACGCGCTTTTATGGTTTGTGTTAATTGATTAATACGCTTTTGTGCA  
TCTGCAGGCGTTTTAAAGCCACCAAGTGTTGGCTCTAATAATTCTTCATCTGACCAAGCAAGCAGTTGTTGTAAGTCT  
CTTAGAGCTTCCCTTCGCCAGTTGTTGTATCTATTAAGGCTTCTTGCATGGCTTGCCAAGAGTCTTTGGT

Fig. 8A

SEO ID NO 38

GTGCTTGGGGTGCTACTCTCACTTGTATTGTTGGTTGCGCTGGTT SEQ ID NO 24  
GTACTTGAAGCACTACTTTTCGCTGGTACTACTTGTGTTTACTGGTT SEQ ID NO 25  
GTACTTGGTGTGTTGCTTTCAATTTGTATTGCTTGTTCACCTGTC SEQ ID NO 26  
GTACTTGAAGTACTACTTTTCGCTGGTACTACTGTTTCGCTGGTT SEQ ID NO 27  
GTGCTTGGCGTGTTGCTTTCACCTCGTACTACTGCTCTCACTTGTGTC SEQ ID NO 28  
GTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTGTC SEQ ID NO 29  
GTGCTTGAAGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTGTC SEQ ID NO 30  
GTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTTTCACCTGTC SEQ ID NO 31  
GTGCTTGAAGTACTACTTTTCGCTTGTATTACTGGTTTCGCTAGTT SEQ ID NO 32  
GTACTTGGTGTGTTGCTTTCAATTTGTATTGCTTGTTCACCTGTC  
GTGCTTGAAGTGCTGCTTTCGCTTGTATTACTGGTTTACTGGTT SEQ ID NO 33  
GTACTTGGTGTATTGCTTTCAATTTGTATTGCTTGTTCACCTGTT SEQ ID NO 34  
GTACTTGAAGTGCTGCTTTCGCTTGTATTACTGGTTTCACTGGTT SEQ ID NO 35  
GTGCTTGAAGTGCTGCTTTCGCTTGTATTACTAGTTGTCTCTGTT SEQ ID NO 36

SEQ ID NO. 23

Fig. 8B

MTEFWPLLWLLSFT  
VLGVLLSLVLLVALV SEQ ID NO 39  
VLEALLSLVLLVLLV SEQ ID NO 40  
**VLGVLLSFVLLVSLV** SEQ ID NO 41  
VLEVLLSLVLLVSLV SEQ ID NO 42  
VLGVLLSLVLLVSLV SEQ ID NO 43  
VLGVLLSLVLLVSLV  
VLEVLLSLVLLVSLV SEQ ID NO 44  
VLGVLLSLVLLVSLV SEQ ID NO 45  
VLGVLLSLVLLVSLV  
VLGVLLSFVLLVSLV  
VLEVLLSLVLLVLLV SEQ ID NO 46  
VLGVLLSFVLLVSLV SEQ ID NO 47  
**VLEVLLSLVLLVSLV**  
VLEVLLSLVLLVSV SEQ ID NO 48  
DFSTNRSNAVFMVCVN

Fig. 8C

SEQ ID NO 51

ATGTTCCAGCCCCTATTAGACGCTTATACAGACAGCACCCGTTTAGATGAAACCGATTATAAGCCCCCATTTAAATAT  
AGCCCTAGCCAATTGGTGGCCTTTGGATAAAAGAGAAAGCAAAGGGTTTAGGCGTTTTATCTTGATTTTCATCTTAA  
GCCAACGCTACACAATCACCTCCACCAAAACCCTAACGAACCCCTCCGATCTGTCTTTGGCAGTCTATTGGATCA  
GCCAGAAAAATCCTATCCTATCAAAACACTAAAAGGGTGTTCACACCGGTGAAAATGAAGTCCCTAATTTCAATCT  
CTTTGATTACGCCATAGGCTTTGATGAATTGGACTTTAGAGATCGTTATTTGAGAATGCCTTTATATTACGCTAGCT  
TGCATTATAAAGCCGAGAGCGTGAATGACACCACCGCGCCCTACAACTCAAAGACAACAGCCTTTATGCTTTAAAA  
AAGCCCTCCCATCATTTTAAAGAAAACCACCTAATTTATGCGCAGTAGTGAATGATGAGAGCGATCCTTTGAAAAG  
AGGGTTTGGCAGCTTTGTGCGGAGCAACCCTAACGCTCCTATAAGGAACGCTTTCTATGACGCTTTAAATTCTATTG  
AGCCAGTTACTGGGGGAGGGAGCGTGAAAAACACTTTAGGCTATAACGTCAAAAACAAGAGCGAGTTTAAAGCCAA  
TACAAATTCAATCTGTGTTTTGAAAACACTCAAGGCTATGGCTATGTAAGTAAAAAATCATTGACGCTTATTTGAG  
CCACACCATTTCCCATTTATTGGGGGAGTCCTAGCGTGGCGAAAGACTTTAACCCCTAAGAGTTTTGTGAACGTTTGTG  
ATTTTAAAAACTTTGATGAAGCGATTGATTACGTGAGATACTTGCACACGCACCCAAACGCTTATTTAGACATGCTC  
TATGAAAACCCCTTTAAACACCCTTGATGGGAAAGCTTACTTTTACCAAAATTTGAGTTTTAAAAAATCCTAGATTT  
TTTTAAAACGATTTTAGAAAACGACACGATCTATCACGATAACCCTTTTCATTTCTATCGCGATTTGAATGAGCCTT  
TAGTAGCTATTGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGAT  
GATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAA  
TTATGATCGCCTTTTACAAAACGCTTCGCCTTTATTAGAACTCTCTCAAAACACCACTTTTAAATCTATCGCAAAG  
CCTATCAAAAATCCTTACCTTTGTTGCGCACCATAAGGAGATGGGTAAAAAATAAA

Fig. 9A

SEQ ID NO 52

SEQ ID NO 59

GATGATTTGAGGGTTAATTAT SEQ ID NO 50  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT

Fig. 9B

DLRVNYD SEQ ID NO 53  
DLRVNYD  
DLRVNYD  
DLRVNYD  
DLRVNYD  
DLRVNYD  
**DLRVNYD**

Fig. 9C



AATAATCAGAATGTTCTAGTTATGGTGGTGGAAGTGCTGATGGTGATTCAGCAGTAAATCCGAAAGACCCAACTCC  
 AGGGCCCGCGGTTGAC  
 CCAGAACCAAGTCCAGACCCAGAACCAGAACCAACG  
 CCAGATCCAGAACCAAGTCCAGACCCAGAACCGGAA  
 CCAAGCCCAGACCCGGATCCG  
 GATTCGGATTCAGACAGT SEQ ID NO 55  
 GACTCAGGCTCAGACAGC SEQ ID NO 56  
 GACTCAGGTTTCTAGTAGC SEQ ID NO 57  
 GACTCAGAATCAGATAGC SEQ ID NO 58  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC SEQ ID NO 59  
 GACTCAGAATCAGATAGC  
 GATTCAGAATCAGATAGC SEQ ID NO 60  
 GACTCAGATTCAGATAGC SEQ ID NO 61  
 GATTCAGATTCAGATAGC SEQ ID NO 62  
 GATTCAGATTCAGATAGC  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC  
 GACTCAGAATCAGATAGC  
 GACTCAGAATCAGATAGT SEQ ID NO 63  
 GAGTCAGATTCAGACAGT SEQ ID NO 64  
 GACTCGGACTCAGACAGT SEQ ID NO 65  
 GATTCAGACTCAGATAGC SEQ ID NO 66  
 GATTCAGACTCAGATAGC  
 GATTCAGATTCAGACAGC  
 GACTCAGATTCAGACAGC SEQ ID NO 67  
 GACTCAGACTCAGATAGC SEQ ID NO 68  
 GACTCAGACTCAGACAGC SEQ ID NO 69  
 GACTCAGATTCAGATAGC  
 GATTCAGACTCAGACAGC SEQ ID NO 70  
 GACTCAGACTCAGACAGC  
 GACTCAGACTCAGATAGC  
 GACTCAGATTCAGATAGC  
 GATTCAGACTCAGACAGC  
 GACTCAGATTCAGATAGC  
 GATTCGGACTCAGACAGC SEQ ID NO 71  
 GATTCAGATTCAGACAGC  
 GACTCAGACTCGGATAGC SEQ ID NO 72  
 GATTCAGATTCAGATAGC  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC  
 GACTCAGACTCGGATAGC  
 GACTCAGACTCAGACAGC  
 GATTCAGACTCAGATAGC  
 GACTCAGACTCGGATAGC  
 GACTCGGATTCAGATAGC SEQ ID NO 73  
 GACTCAGACTCAGATAGT SEQ ID NO 74  
 GACTCCGATTCAAGAGTT SEQ ID NO 75  
 ACACCACCAATAATGAACAGAAAGCACCATCAAATCCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA  
 ACACAAAAGTATGCTTTACCA

Fig. 10B

Repeat pattern isolate 1:

1-2-3-4-1-5-4-6-7-8-8-1-5-4-9-10-11-12-12-5-13-14-15-7-16-15-14-7-16-7-17-5-18-8-1-5-18-15-12-18-19-20-21

Fig. 10E

TCAGCAGTAAATCCGAAAGACCCAACTCCAGGGCCGCGGTTGACCCAGAACCAAGTCCAGACCCAGAACCCAGAACC  
AACGCCAGATCCAGAACCAAGTCCAGACCCAGAACCGGAACCAAGCCCAGACCCGGATCCG

GATTCGGATTCAGACAGT

GACTCAGGCTCAGACAGC

GACTCAGGTTTCAGATAGC

GACTCAGAATCAGATAGC

GATTCGGATTCAGACAGT

GATTCAGATTCAGACAGC

GACTCAGAATCAGATAGC

GATTCAGAATCAGATAGC

GACTCAGATTCAGATAGC

GATTCAGATTCAGATAGC

GATTCAGAATCAGATAGC

GATTCGGATTCAGACAGT

GATTCAGATTCAGACAGC

GACTCAGAATCAGATAGC

GACTCAGAATCAGATAGT

GAGTCAGATTCAGACAGT

GACTCGGACTCAGACAGT

GATTCAGACTCAGATAGC

GATTCAGACTCAGATAGC

GATTCAGACTCAGACAGC

GATTCAGATTCAGACAGC

GACTCAGAATCAGACAGC

SEQ ID NO 79

GACTCAGACTCAGATAGC

GACTCAGACTCAGACAGC

GACTCAGATTCAGATAGC

GATTCAGACTCAGACAGC

GACTCAGACTCAGACAGC

GACTCAGACTCAGATAGC

GATTCAGACTCAGACAGC

GACTCAGATTCAGATAGC

GATTCGGACTCAGACAGC

GATTCAGATTCAGACAGC

GACTCAGACTCGGATAGC

GATTCAGATTCAGACAGC

GACTCAGACTCGGATAGC

GACTCGGATTCAGATAGT

SEQ ID NO 80

GACTCCGATTCAAGAGTT

ACACCACCAAATAATGAACAGAAAGCACCATCAAATCCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA  
ACACAAAAGTATGCTTTACCAGAAACAGGAGATAAGAGCGAAAACACAAATGCAACTTTATTTGGTGCAATG

Fig. 10C

Repeat pattern isolate 2:

1-2-3-4-1-5-4-6-7-8-6-1-5-4-9-10-11-12-12-16-5-22-14-15-7-16-15-14-16-7-17-5-18-5-18-23-21

Fig. 10F